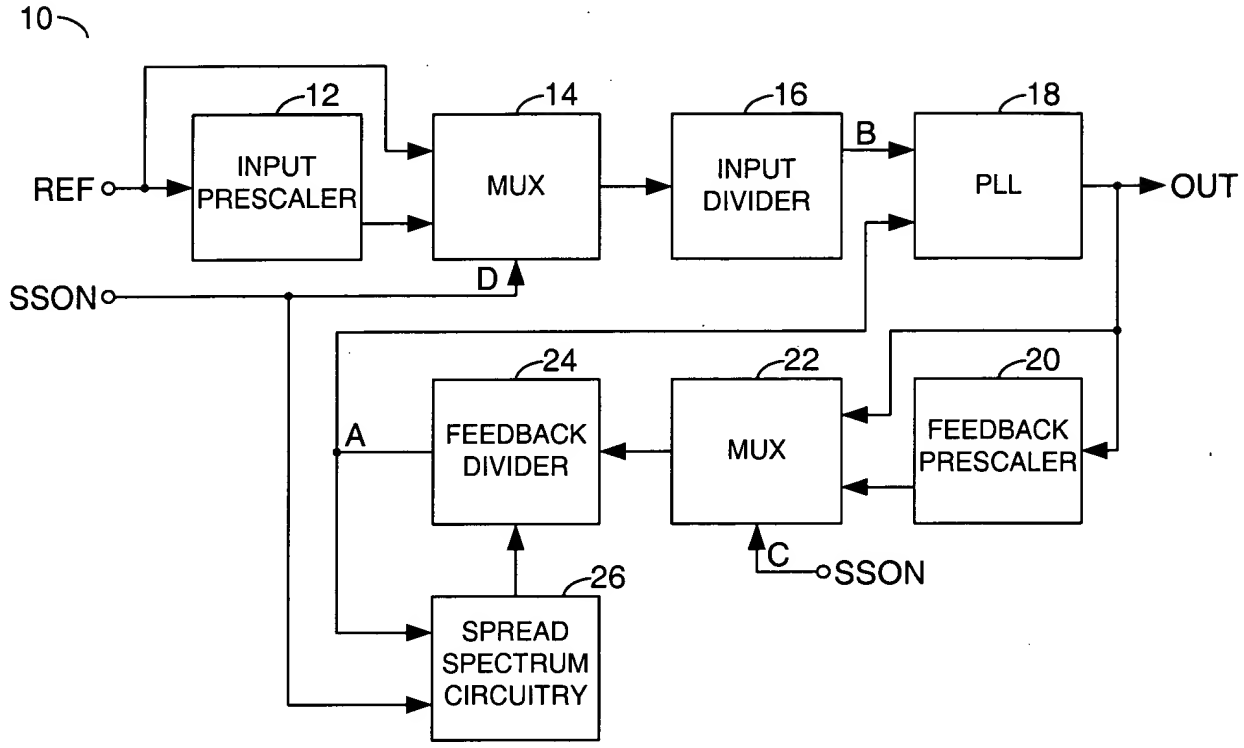


(CONVENTIONAL)

FIG. 1

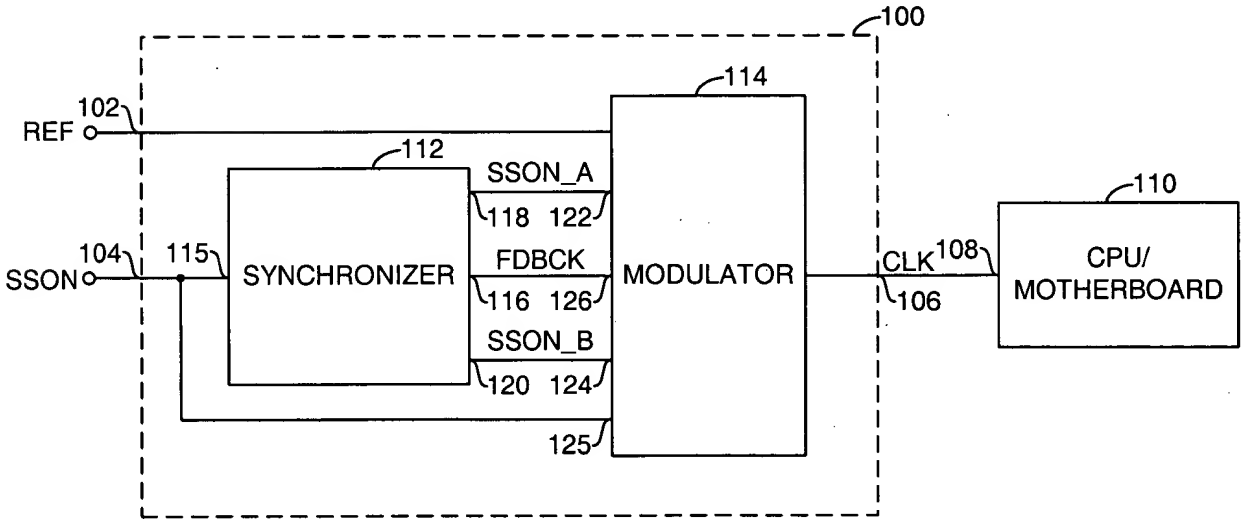
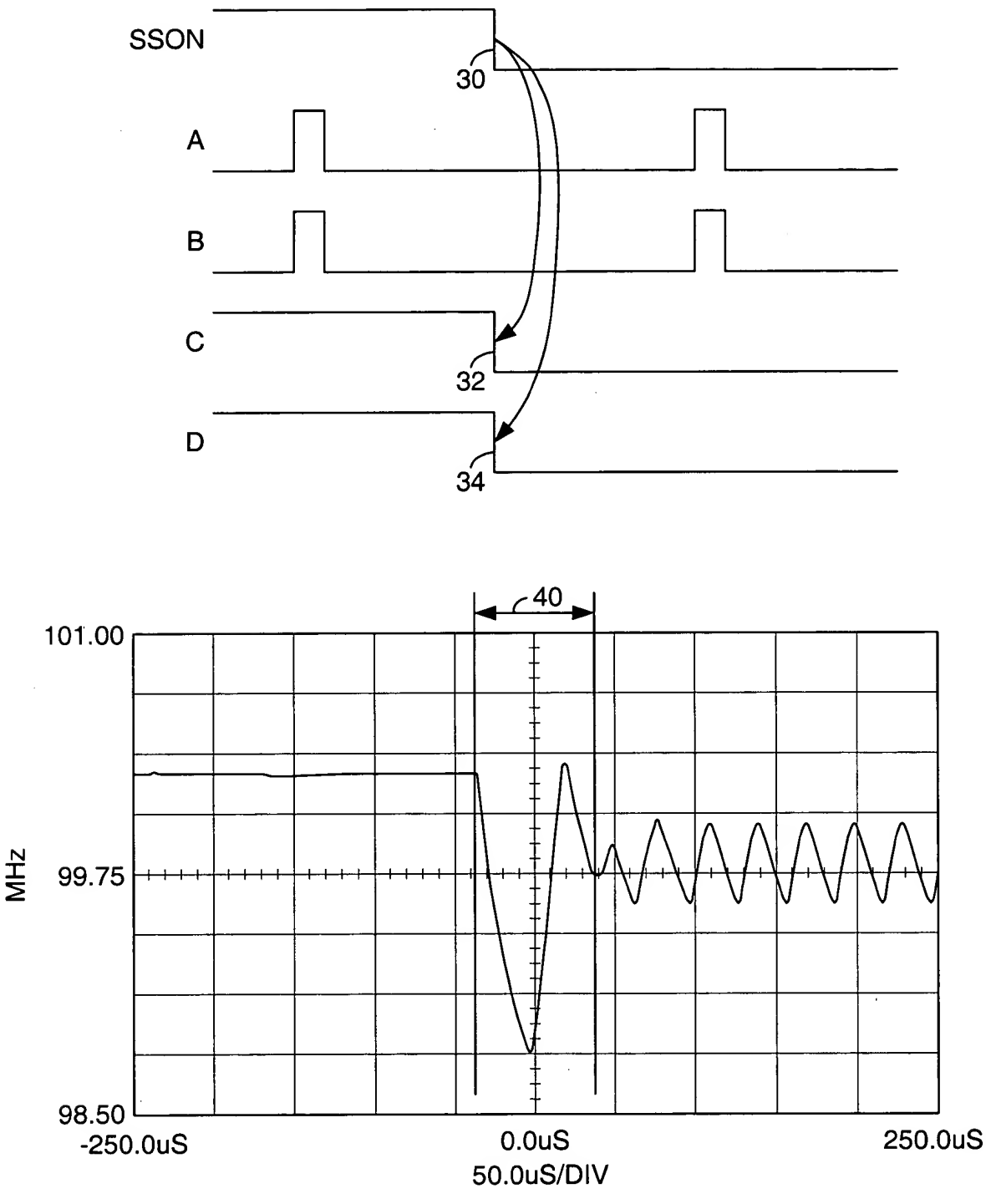


FIG. 3



(CONVENTIONAL)

FIG. 2

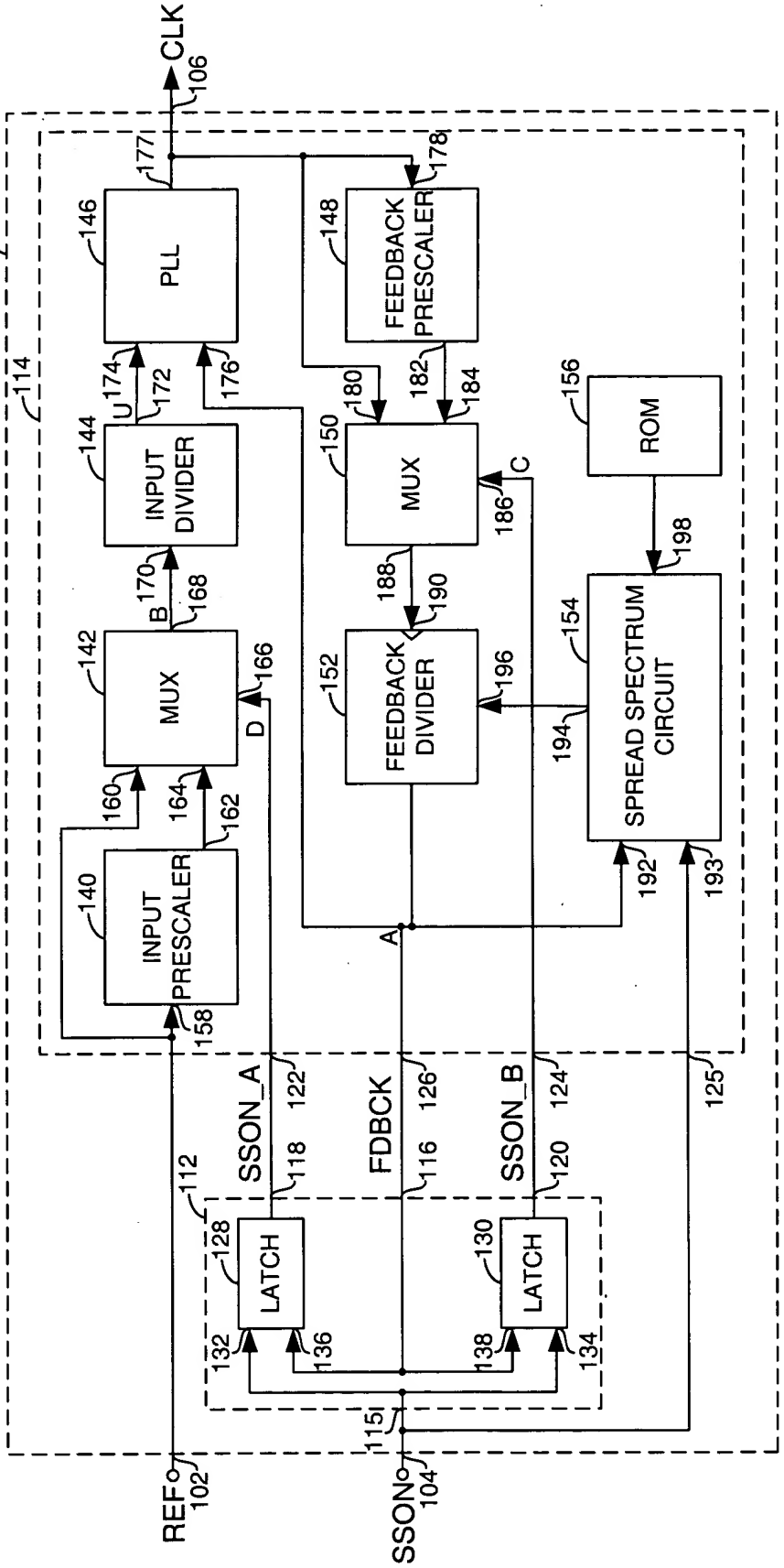


FIG. 4

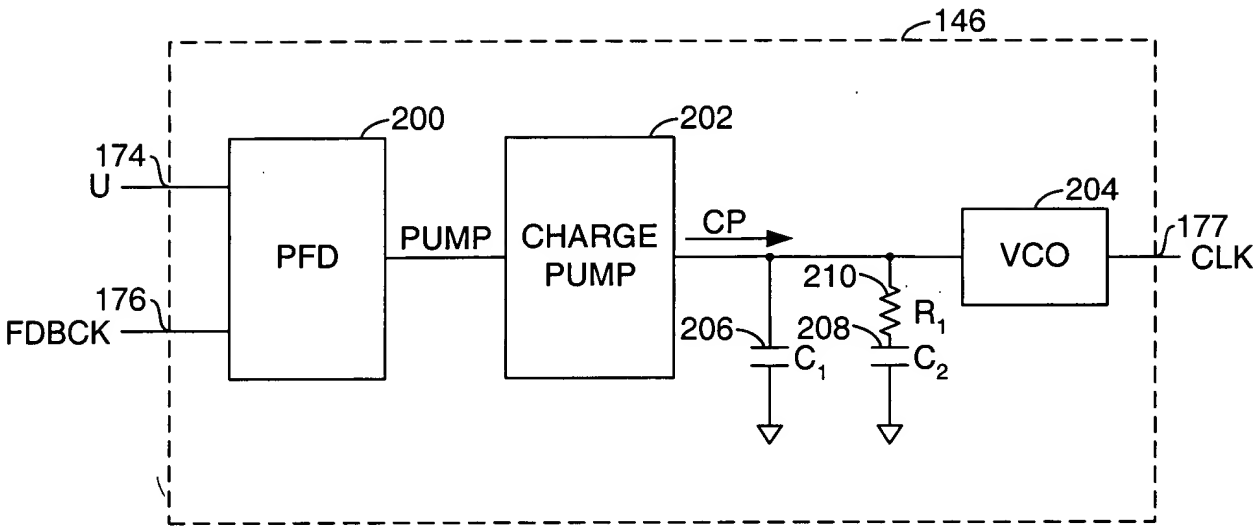
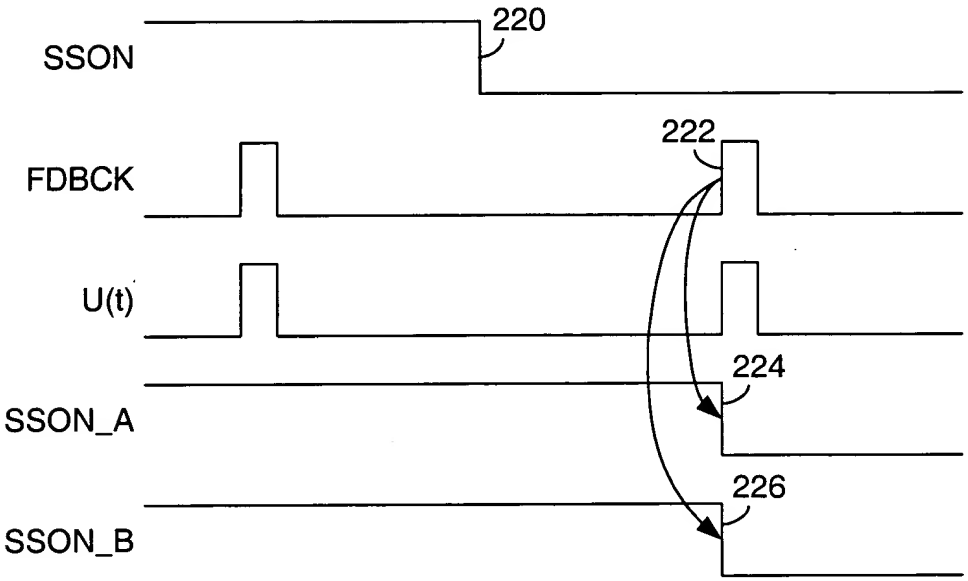
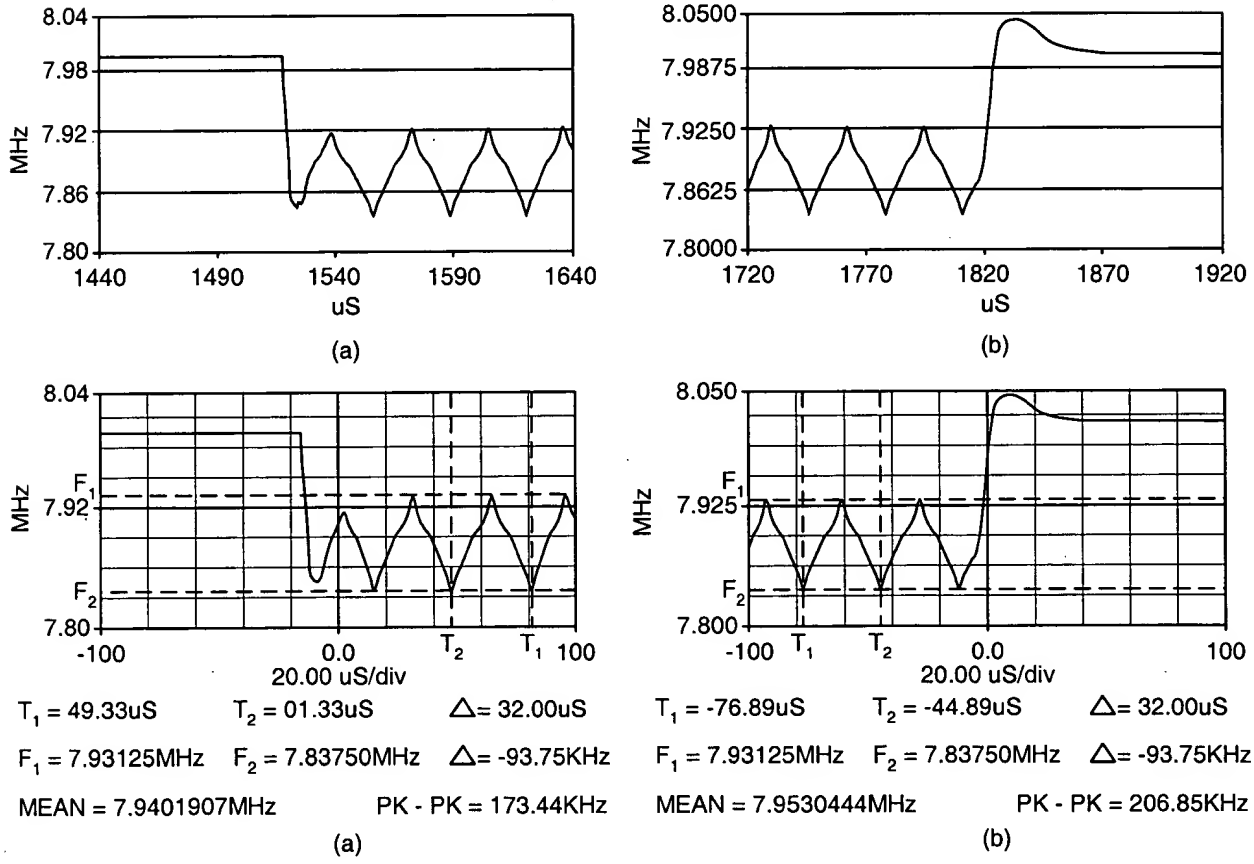


FIG. 5



SPREAD SPECTRUM TRANSITION BEHAVIORS ARE CONTROLLED BY THE PROGRAM



T_1 = 49.33uS T_2 = 01.33uS Δ= 32.00uS

F_1 = 7.93125MHz F_2 = 7.83750MHz Δ= -93.75KHz

MEAN = 7.9401907MHz PK - PK = 173.44KHz

(a)

T_1 = -76.89uS T_2 = -44.89uS Δ= 32.00uS

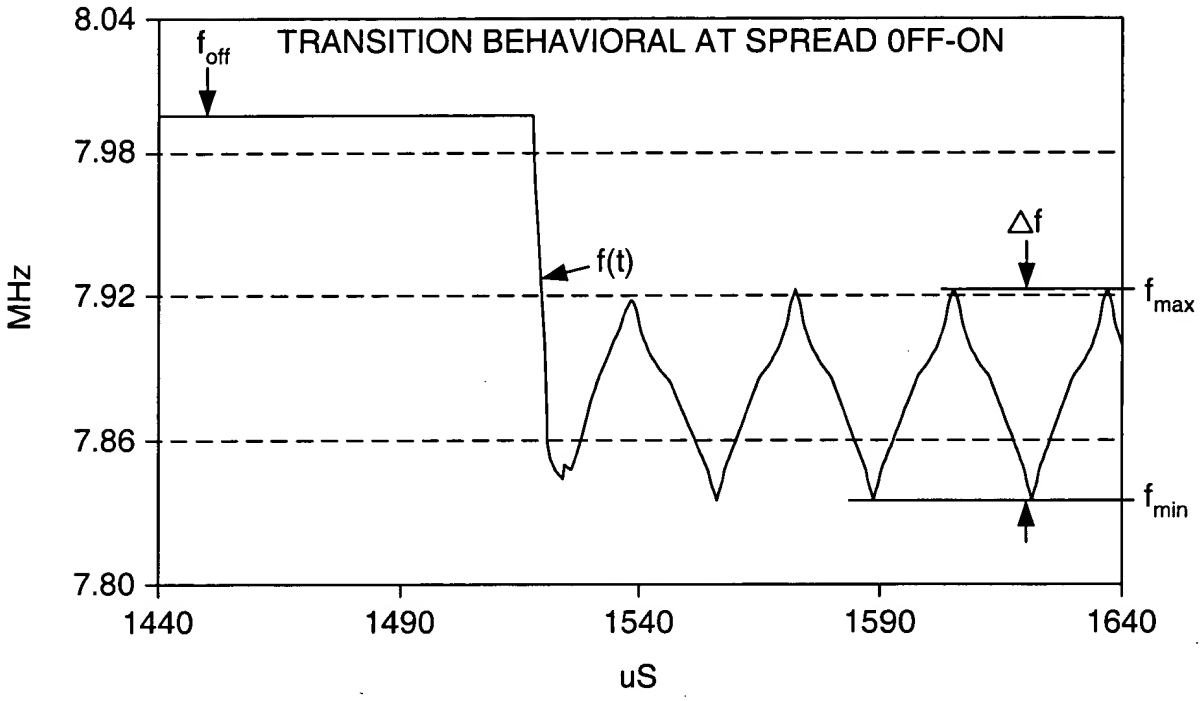
F_1 = 7.93125MHz F_2 = 7.83750MHz Δ= -93.75KHz

MEAN = 7.9530444MHz PK - PK = 206.85KHz

(b)

FIG. 6

CRITERIA FOR DETERMINING "GOOD AND BAD" SS TRANSIENT BEHAVIOR



f(t) : PLL's RUNNING FREQUENCY IN TRANSIENT PERIOD

f_{off} : PLL's SSCG OFF FREQUENCY

f_{max} : MAXIMUM FREQUENCY IN SSCG ON

f_{min} : MINIMUM FREQUENCY IN SSCG ON

△f : PEAK TO PEAK FREQUENCY IN SSCG

CRITERIA NEED TO BE SATISFIED:

FREQUENCY RUNNING RANGE DURING TRANSIENT $f_{min} \leq f(t) \leq f_{off}$

FIG. 7

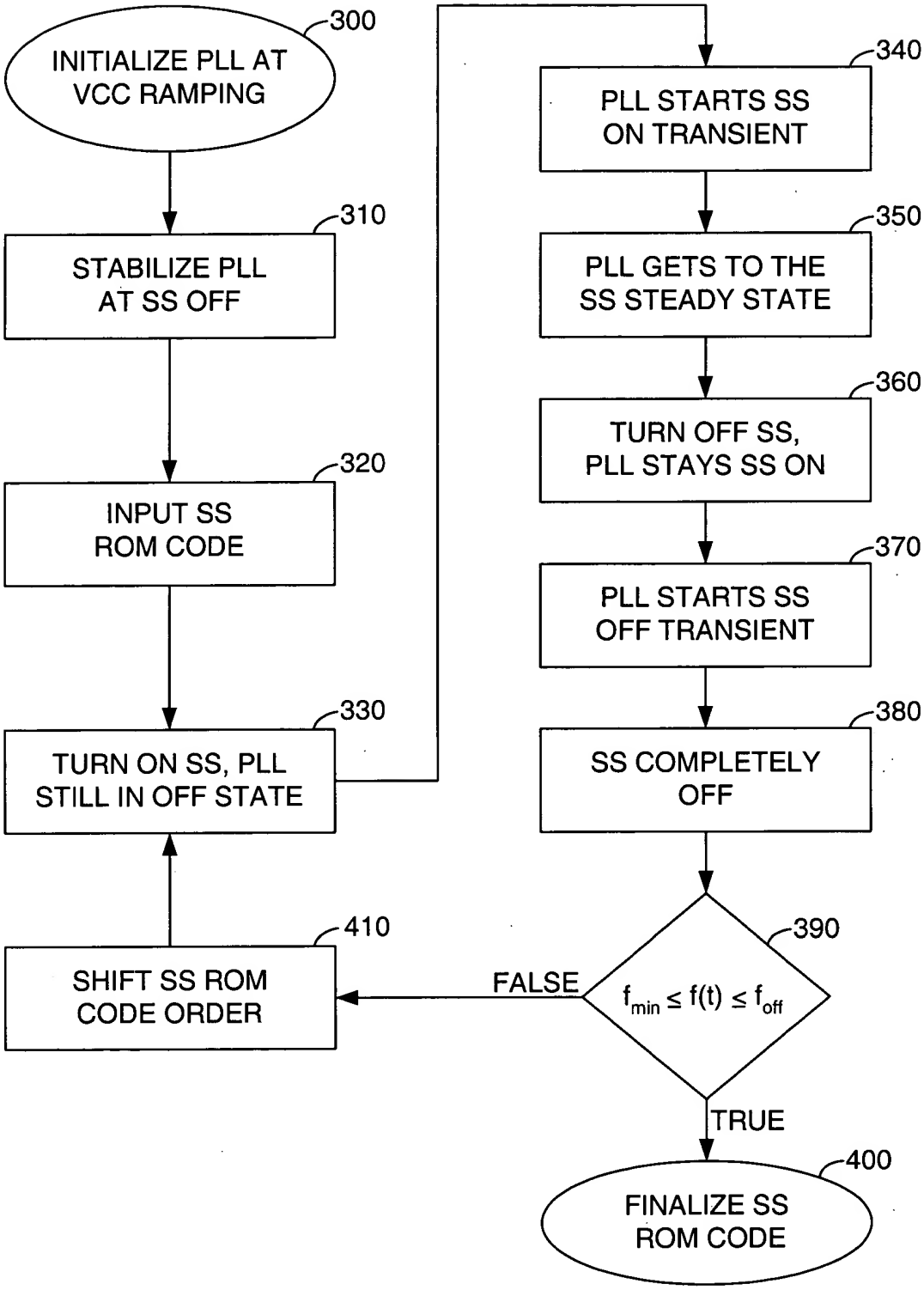
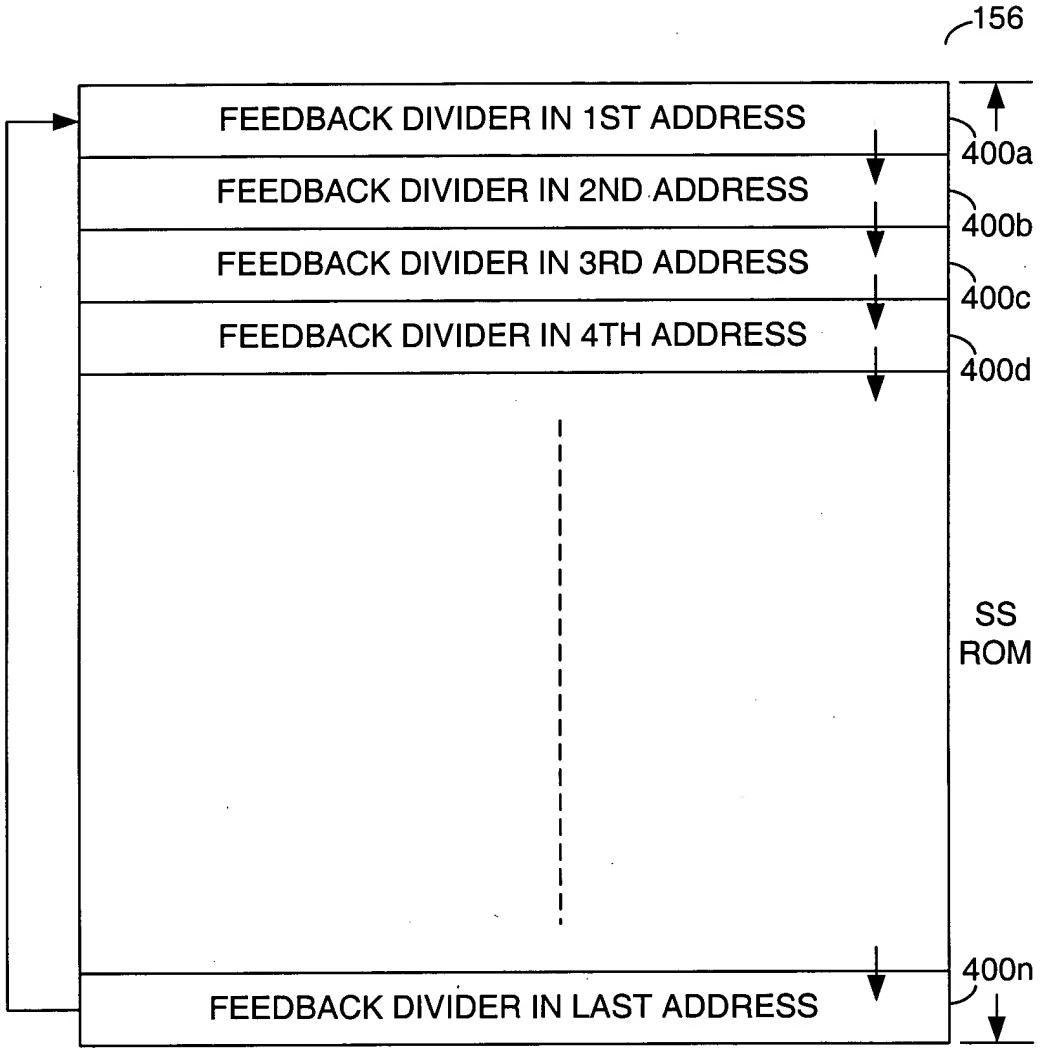


FIG. 8

ORDER SHIFTING STEP IN RESPONSE TO BAD BEHAVIOR



MOVE FEEDBACK DIVIDER IN LAST ADDRESS TO 1ST ADDRESS AND SHIFT DOWN SS ROM CODE.

FIG. 9